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STATE OF ALABAMA

DEPARTMENT OF PUBLIC HEALTH

FCC MAIL ROOM

DONALD E. WILLIAMSON, M.D. • STATE HEALTH OFFICER

Date: December 16, 1996

To: Office of the Secretary
Federal Communications Commission
Room 222, 1919 M Street, N. W.
Washington, D. C. 20554

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From: Leon Barwick, Director *Leon Barwick*
Bureau of Information Services

Subj: Comments on Public Notice concerning 1996 Telecommunications Act

CC Docket No 96-45

The Alabama Department of Public Health is pleased to submit the following information in response to the Public Notice, November 18, 1996 by the FCC:

1. Name of project:
Alabama Department of Public Health Network

2. Please list each of the project's sites:

The following public health clinics which are all in Alabama, will have the network installed.

	CLINIC	COUNTY
1	PRATTVILLE	AUTAUGA
2	CLAYTON	BARBOUR
3	EUFAULA	BARBOUR
4	BAY MINETTE	BALDWIN
5	CENTERVILLE	BIBB
6	ONEONTA	BLOUNT

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7	UNION SPRINGS	BULLOCK
8	GREENVILLE	BUTLER
9	ANNISTON	CALHOUN
10	LAFAYETTE	CHAMBERS
11	VALLEY	CHAMBERS
12	CENTRE	CHEROKEE
13	CLANTON	CHILTON
14	BUTLER	CHOCTAW
15	GROVEHILL	CLARKE
16	ASHLAND	CLAY
17	HEFLIN	CLEBURNE
18	ENTERPRISE	COFFEE
19	TUSCAMBIA	COLBERT
20	EVERGREEN	CONECUH
21	ROCKFORD	COOSA
22	ANDALUSIA	COVINGTON
23	LUVERNE	CRENSHAW
24	CULLMAN	CULLMAN
25	OZARK	DALE
26	SELMA	DALLAS
27	FORT PAYNE	DEKALB
28	WETUMPKA	ELMORE
29	BREWTON	ESCAMBIA
30	ATMORE	ESCAMBIA
31	GADSEN	ETOWAH
32	FAYETTE	FAYETTE
33	RUSSELVILLE	FRANKLIN
34	GENEVA	GENEVA
35	EUTAW	GREENE
36	GREENSBORO	HALE
37	ABBEVILLE	HENRY
38	HEADLAND	HENRY
39	DOTHAN	HOUSTON
40	SCOTTSBORO	JACKSON
41	VERNON	LAMAR
42	FLORENCE	LAUDERDALE
43	MOULTON	LAWRENCE
44	OPELIKA	LEE
45	ATHENS	LIMESTONE

46	HAYNEVILLE	LOWNDES
47	TUSKEGEE	MACON
48	LINDEN	MARENGO
49	HUNTSVILLE	MADISON
50	HAMILTON	MARION
51	GUNTERSVILLE	MARSHALL
52	MOBILE	MOBILE
53	MONROEVILLE	MONROE
54	MOBILE HWY	MONTGOMERY
55	TRAINING	MONTGOMERY
56	DECATUR	MORGAN
57	MARION	PERRY
58	CARROLLTON	PICKENS
59	TROY	PIKE
60	ROANOKE	RANDOLPH
61	PHENIX CITY	RUSSELL
62	ASHVILLE	ST CLAIR
63	COLUMBIANA	SHELBY
64	PELHAM	SHELBY
65	LIVINGSTON	SUMTER
66	TALLADEGA	TALLADEGA
67	SYLACAUGA	TALLADEGA
68	DADEVILLE	TALLAPOOSA
69	ALEX CITY	TALLAPOOSA
70	TUSCALOOSA	TUSCALOOSA
71	JASPER	WALKER
72	CHATOM	WASHINGTON
73	CAMDEN	WILCOX
74	DBLE SPRING	WINSTON
75	HALEYVILLE	WINSTON
76	ROBERTSDALE	BALDWIN
77	BIRMINGHAM	JEFFERSON

3. The following cities in Alabama have a population greater than 50,000:

Huntsville
Montgomery
Birmingham
Dothan
Mobile

Based upon telecommunications accessibility, we classified sites 1,4,28,39,44,49,52,54, 55,70,and 77 as urban and the rest as rural.

The rural sites range from 20 to over 100 miles from these cities. As an average, the distance from rural county sites to an urban telecommunications facility is 50 miles.

4. Name of the project's telecommunications service providers:

Bell South (approximately 65%)
GTE
Gulf Telephone Company
National Telephone Company
AllTell
Farmers Telephone Coop
26 other small telephone companies

5. Level of telecommunications service the project will use:

The project is implementing 56KB Frame Relay service to connect all 77 sites back to the Montgomery State Central ADPH office. Costs for this project are shown in attachment 1. Additionally, we estimated costs to install access in all sites via three other alternatives: (attachment 2) 1FB lines to dial up an internet provider (attachment 3) T-1 Frame Relay and (attachment 4) Normal T-1 service.

6. Charges for telecommunication service:

The attachments for the four alternatives provide the costs for telecommunications service to each of our 77 sites. Both monthly service charges and installations fees are provided. None of these services have a usage based charge because all are unlimited service. There is a distance component for the frame relay and normal T-1 services. The distance component is based upon miles from the nearest central office of the telephone company. As mentioned above, we estimated an average of 50 miles per site from the nearest urban telecommunication carrier.

For your information, we have also included the cost differential between rural and urban areas at the end of each alternative.

7. How does the project use telecommunications in the delivery of health care?

The implementation of telecommunications technology to deliver health care in Alabama is to be implemented for patient record purposes, with all 77 public health clinics being networked into a statewide clinic level information system. However, the use of telecommunication technology for actual health care delivery is in its infancy. Two regional medical providers have begun the development of electronic health care delivery systems. Both started with teleradiology, teleconsulting, and distance training as their initial focus. No public health clinics are involved in the development and implementation of telemedicine-related initiatives at this time.

Notwithstanding our present involvement, we anticipate Alabama's public health clinics will greatly benefit from telecommunications and related telemedicine technology in the future. Illustrations of the kinds of implementations which we envision are provided on the enclosed listing. The need for any specific application or combination of applications at any given clinic will require a formal needs assessment and cost-benefit analysis. The resulting selection of applications will in turn determine the kind of telecommunications infrastructure that will be needed. This infrastructure could range from a "Full T-1" connection to a minimal "1FB Line", with a corresponding swing in the cost of service.

The following are illustrations of telecommunications technology applications available to serve the essential medical needs of the state. Implementation of a specific application in a given community would need to be preceded by a formal needs assessment to identify and quantify the communities' actual requirements.

-Community-based health education via distance learning technology:

Public education at the community level is the key to good health and lower health maintenance costs. This is particularly true in poor, rural areas where everyday lifestyles are not congruent with disease prevention and good health habits. Distance learning technology will allow delivery of on-site presentations tailored to the unique needs of the community; e.g., communities with exposure to specific hazardous material such as lead-based paints will be sensitized to the need for special health precautions.

-Continuing education for health care professionals:

Time away from clinics significantly detracts from the delivery of health services by professional staff; however, the fast pace of medical treatment technologies necessitates continuous training. Use of on-site, distance learning technologies will facilitate staff training without the need to leave their clinic practice setting; thereby, enhancing the accessibility of health care within the confines of existing staffing levels.

-Teleconsulting & referrals:

Much time and money is wasted referring patients to specialists when in fact the ultimate diagnoses indicated specialty intervention was not necessary. These situations can be greatly minimized by electronically connecting primary care clinics and providers with specialist resources for on-the-spot consultations. High quality remote consultations are fast becoming a reality with the emergence of new technologies such as remote sensors, scanners and interactive video.

-Electronic bulletin board interchanges for public health notices, epidemiological alerts, ad hoc announcements, etc.:

Timely alerts to detrimental health conditions such as communicable disease epidemics and environmental contamination is essential to the prevention of large-scale public

health disasters. A 24-hour electronic bulletin board would provide immediate access to all public health clinics and related private health providers throughout the state, with real-time notification and feedback capability.

-Automated professional recruitment and retention program:

Electronic linkage of clinics, hospitals and private providers will facilitate development of a statewide database of professional medical vacancies. This database will provide high visibility of vacancies to prospective applicants and serve to strengthen the ability of rural communities to attract and retain much needed health care resources. An electronic forum for these vacancies would provide for their advertisement on a priority basis, with outreach across the entire United States. This electronic interface would also provide a means for health professionals in remote, rural areas to maintain a virtual presence with their peers, thus diminishing the feeling of isolation that often contributes to their relocation to more populated areas.

-Televideo links between provider peer groups and the public health system:

The ability of public health to detect and ameliorate threats to the public safety are restrained by the absence of an omnipresent public health forum to exchange information about critical medical events on a real-time basis. This constraint can be minimized by the implementation of a statewide health network that would instantaneously share critical events (e.g., occurrences of rabies, measles, aids, and other communicable diseases) among all net-partners. This system would greatly reinforce the effectiveness of the epidemiological sentinel system presently in use. In addition, the system would contribute to the formation and maintenance of a comprehensive health system network comprised of providers from within both the public and private sector.

-Telemedicine services, such as teleradiology, teledermatology, and delivery of specialty care (emergency cardiology diagnostics, etc.):

Some public health clinics have medical care programs which could benefit from the implementation of developing telemedicine technology. These technological developments include teleradiology and dermatology, with remote specialist interventions and surgery fast becoming a reality. Prompt implementation of this technology has the potential to greatly impact public health through early detection and treatment of life-threatening conditions particularly indigenous to rural Alabama; e.g., melanoma, cardiac arrest, tuberculosis and farming accidents. Electronic access to centralized specialty care will also tend to be more cost effective through economies of scale and from the electronic triage of prospective specialty referrals.

-Health care to the home-bound disabled and elderly:

In-home health care is proving to be one of the most cost effective and patient-satisfying health delivery innovations of our time, reminiscent of the physician house-calls of earlier days. This in-home service can be greatly streamlined through the use of home-to-clinic

televideo and electronic devices to remotely monitor patients' vital signs. Implementation of this technology in home-health delivery agencies will vastly reduce provider travel requirements and related costs, plus provide on-the-spot alerts and early treatment of medical emergencies. This technology needs priority implementation in preparation for the upcoming surge in the aged population.

-Self-diagnostic treatment and referral system:

Physician and emergency room visits can be reduced through use of a 24-hour medical "tele-hotline." This service would provide a 24-hour web site with video-conference capability, staffed by competent mid-level providers with physician back-up. The service would provide preliminary diagnosis of medical conditions with treatments ranging from specialist and emergency-room referrals to self-treatment and primary care appointments. Payback would be in the form of curtailed emergency room visits, timely treatment of bonafide emergencies, and a significant reduction in the cost of routine medical conditions.

-Health care to penal institutions:

Delivery of health care to penal institutions via telecommunications promises to be both more economical and safer than the conventional method of transporting patients outside the area of confinement. This system would potentially engender the use of the full spectrum of telemedicine services, from teleconsulting to teledermatology, aided by the on-site presence of a para-medical specialist. Tying these facilities into the above-mentioned provider network would also facilitate early reporting of communicable health conditions that could threaten the general public health.

-Community-based behavioral risk modification workshops:

Unhealthy behavior is a major contributing factor to the incident of poor health and high cost of health care. These factors include smoking, promiscuousness, drinking, and drug abuse, leading to such consequences as cancer, heart disease, teen pregnancy, liver failure and premature death. Targeted education of the affected population is key to solving these problems. Telecommunications and video-conferences are vital links to providing this education in a workshop environment which uses practical examples and vivid illustrations to drive home the need for revised personal behavior.

8. Could the project provide the services it is currently providing with less bandwidth? What effect would a lower level of bandwidth have?

The project is using 56KB Frame Relay which will transmit immunization records, lab results, and other clinic/medical data adequately. Lesser bandwidth would not meet the requirements or be practical.

For other uses which could be implemented by the Department such as those mentioned in question 7, less bandwidth would be required for pure internet applications and more bandwidth would be required for video/image type applications.

9. What would be the implications of having greater level of bandwidth be?

More interactive video would be available for consultations. Additionally, many of the services mentioned in question 7 could be implemented.

10. Do you have e-mail?

Yes, for a few staff members. We are planning to install it Department-wide with the frame relay service in 1997.

11. Do you have Internet access?

Yes, approximately 40 people in the Department have Internet access.

Do you incur long-distance charges by using it? No.

Please estimate your number of hours of Internet use per month. Approximately 5 per user.

12. If you have access to the Internet, please list any purposes other than e-mail for which you use it:

It is used for research and information gathering over the World Wide Web.

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Option 1: Frame Relay, 56 KB
 There is no usage based charge
 Rural distances cost more than urban

CLINIC	COUNTY	RURAL/URBAN	MONTHLY COST	INSTALL COST
1 PRATTVILLE	AUTAUGA	U	\$233.08	\$990.00
2 CLAYTON	BARBOUR	R	\$271.66	\$1,070.00
3 EUFAULA	BARBOUR	R	\$271.66	\$1,070.00
4 BAY MINETTE	BALDWIN	U	\$233.08	\$1,040.00
5 CENTERVILLE	BIBB	R	\$260.64	\$1,120.00
6 ONEONTA	BLOUNT	R	\$330.92	\$1,071.00
7 UNION SPRINGS	BULLOCK	R	\$443.09	\$1,021.00
8 GREENVILLE	BUTLER	R	\$321.27	\$1,021.00
9 ANNISTON	CALHOUN	R	\$271.66	\$1,120.00
10 LAFAYETTE	CHAMBERS	R	\$260.64	\$1,070.00
11 VALLEY	CHAMBERS	R	\$260.64	\$1,120.00
12 CENTRE	CHEROKEE	R	\$345.53	\$1,071.00
13 CLANTON	CHILTON	R	\$260.64	\$1,120.00
14 BUTLER	CHOCTAW	R	\$389.62	\$1,071.00
15 GROVEHILL	CLARKE	R	\$322.65	\$1,071.00
16 ASHLAND	CLAY	R	\$326.09	\$1,071.00
17 HEFLIN	CLEBURNE	R	\$308.18	\$1,071.00
18 ENTERPRISE	COFFEE	R	\$430.68	\$1,021.00
19 TUSCUMBIA	COLBERT	R	\$233.08	\$1,040.00
20 EVERGREEN	CONECUH	R	\$324.03	\$1,071.00
21 ROCKFORD	COOSA	R	\$330.92	\$1,071.00
22 ANDALUSIA	COVINGTON	R	\$420.49	\$1,021.00
23 LUVERNE	CRENSHAW	R	\$334.50	\$1,021.00
24 CULLMAN	CULLMAN	R	\$233.08	\$1,040.00
25 OZARK	DALE	R	\$421.59	\$1,021.00
26 SELMA	DALLAS	R	\$233.08	\$990.00
27 FORT PAYNE	DEKALB	R	\$292.33	\$1,120.00
28 WETUMPKA	ELMORE	U	\$233.08	\$990.00
29 BREWTON	ESCAMBIA	R	\$271.66	\$1,120.00
30 ATMORE	ESCAMBIA	R	\$297.16	\$1,071.00
31 GADSDEN	ETOWAH	R	\$271.66	\$1,120.00
32 FAYETTE	FAYETTE	R	\$359.58	\$1,071.00
33 RUSSELVILLE	FRANKLIN	R	\$260.64	\$1,120.00
34 GENEVA	GENEVA	R	\$498.89	\$1,021.00
35 EUTAW	GREENE	R	\$271.66	\$1,120.00
36 GREENSBORO	HALE	R	\$271.66	\$1,070.00
37 ABBEVILLE	HENRY	R	\$444.33	\$1,021.00
38 HEADLAND	HENRY	R	\$485.25	\$1,021.00
39 DOTHAN	HOUSTON	U	\$507.99	\$1,021.00
40 SCOTTSBORO	JACKSON	R	\$330.92	\$1,071.00
41 VERNON	LAMAR	R	\$373.63	\$1,071.00
42 FLORENCE	LAUDERDALE	R	\$233.08	\$1,040.00
43 MOULTON	LAWRENCE	R	\$233.08	\$1,040.00
44 OPELIKA	LEE	U	\$233.08	\$990.00
45 ATHENS	LIMESTONE	R	\$233.08	\$1,040.00
46 HAYNEVILLE	LOWNDES	R	\$311.62	\$1,021.00
47 TUSKEGEE	MACON	R	\$233.08	\$990.00
48 LINDEN	MERENGO	R	\$271.66	\$1,070.00
49 HUNTSVILLE	MADISON	U	\$233.08	\$1,040.00
50 HAMILTON	MARION	R	\$397.06	\$1,071.00
51 GUNTERSVILLE	MARSHALL	R	\$246.66	\$970.00
52 MOBILE	MOBILE	U	\$233.08	\$1,040.00
53 MONROEVILLE	MONROE	R	\$420.49	\$1,071.00
54 MOBILE HWY	MONTGOMER	U	\$233.08	\$990.00
55 TRAINING	MONTGOMER	U	\$233.08	\$990.00
56 DECATUR	MORGAN	R	\$233.08	\$1,040.00
57 MARION	PERRY	R	\$271.66	\$1,070.00
58 CARROLLTON	PICKENS	R	\$343.32	\$1,071.00
59 TROY	PIKE	R	\$246.66	\$970.00
60 ROANOKE	RANDOLPH	R	\$303.36	\$1,021.00
61 PHENIX CITY	RUSSELL	R	\$367.29	\$1,071.00
62 ASHVILLE	ST CLAIR	R	\$367.29	\$1,071.00
63 COLUMBIANA	SHELBY	R	\$233.08	\$1,040.00
64 PELHAM	SHELBY	R	\$233.08	\$1,040.00
65 LIVINGSTON	SUMTER	R	\$292.33	\$1,120.00
66 TALLADEGA	TALLADEGA	R	\$233.08	\$1,040.00
67 SYLACAUGA	TALLADEGA	R	\$233.08	\$1,040.00
68 DADEVILLE	TALLAPOOSA	R	\$271.66	\$1,120.00
69 ALEX CITY	TALLAPOOSA	R	\$271.66	\$1,120.00
70 TUSCALOOSA	TUSCALOOSA	U	\$233.08	\$1,040.00
71 JASPER	WALKER	R	\$233.08	\$1,040.00
72 CHATOM	WASHINGTON	R	\$367.29	\$1,071.00
73 CAMDEN	WILCOX	R	\$371.98	\$1,021.00
74 DBLE SPRING	WINSTON	R	\$339.18	\$1,071.00
75 HALEYVILLE	WINSTON	R	\$364.26	\$1,071.00
76 ROBERTSDALE	BALDWIN	R	\$291.45	\$921.00
77 BIRMINGHAM	JEFFERSON	U	\$208.08	\$890.00
			\$23,297	\$80,834
Annual Cost			\$279,566	
Total First Year Cost			\$360,400	
Avg Rural Cost Diff/Mo				\$55.00
Annual Rural Avg Diff/Site				\$655.00

Option 2: 1FB Lines for Internet, 28.8 KB Rate
 No Usage charge or distance based charge
 Internet provider is available locally in each site

CLINIC	COUNTY	RURAL/URBAN	MONTHLY COST	INSTALL COST
1 PRATTVILLE	AUTAUGA	U	\$197.85	\$282.00
2 CLAYTON	BARBOUR	R	\$197.85	\$282.00
3 EUFAULA	BARBOUR	R	\$197.85	\$282.00
4 BAY MINETTE	BALDWIN	U	\$197.85	\$282.00
5 CENTERVILLE	BIBB	R	\$197.85	\$282.00
6 ONEONTA	BLOUNT	R	\$197.85	\$282.00
7 UNION SPRINGS	BULLOCK	R	\$197.85	\$282.00
8 GREENVILLE	BUTLER	R	\$197.85	\$282.00
9 ANNISTON	CALHOUN	R	\$197.85	\$282.00
10 LAFAYETTE	CHAMBERS	R	\$197.85	\$282.00
11 VALLEY	CHAMBERS	R	\$197.85	\$282.00
12 CENTRE	CHEROKEE	R	\$197.85	\$282.00
13 CLANTON	CHILTON	R	\$197.85	\$282.00
14 BUTLER	CHOCTAW	R	\$197.85	\$282.00
15 GROVEHILL	CLARKE	R	\$197.85	\$282.00
16 ASHLAND	CLAY	R	\$197.85	\$282.00
17 HEFLIN	CLEBURNE	R	\$197.85	\$282.00
18 ENTERPRISE	COFFEE	R	\$197.85	\$282.00
19 TUSCUMBIA	COLBERT	R	\$197.85	\$282.00
20 EVERGREEN	CONECUH	R	\$197.85	\$282.00
21 ROCKFORD	COOSA	R	\$197.85	\$282.00
22 ANDALUSIA	COVINGTON	R	\$197.85	\$282.00
23 LUVERNE	CRENSHAW	R	\$197.85	\$282.00
24 CULLMAN	CULLMAN	R	\$197.85	\$282.00
25 OZARK	DALE	R	\$197.85	\$282.00
26 SELMA	DALLAS	R	\$263.80	\$376.00
27 FORT PAYNE	DEKALB	R	\$197.85	\$282.00
28 WETUMPKA	ELMORE	U	\$197.85	\$282.00
29 BREWTON	ESCAMBIA	R	\$197.85	\$282.00
30 ATMORE	ESCAMBIA	R	\$197.85	\$282.00
31 GADSDEN	ETOWAH	R	\$197.85	\$282.00
32 FAYETTE	FAYETTE	R	\$197.85	\$282.00
33 RUSSELVILLE	FRANKLIN	R	\$197.85	\$282.00
34 GENEVA	GENEVA	R	\$197.85	\$282.00
35 EUTAW	GREENE	R	\$197.85	\$282.00
36 GREENSBORO	HALE	R	\$197.85	\$282.00
37 ABBEVILLE	HENRY	R	\$197.85	\$282.00
38 HEADLAND	HENRY	R	\$197.85	\$282.00
39 DOTHAN	HOUSTON	U	\$395.70	\$564.00
40 SCOTTSBORO	JACKSON	R	\$197.85	\$282.00
41 VERNON	LAMAR	R	\$197.85	\$282.00
42 FLORENCE	LAUDERDALE	R	\$197.85	\$282.00
43 MOULTON	LAWRENCE	R	\$197.85	\$282.00
44 OPELIKA	LEE	U	\$263.80	\$376.00
45 ATHENS	LIMESTONE	R	\$197.85	\$282.00
46 HAYNEVILLE	LOWNDES	R	\$197.85	\$282.00
47 TUSKEGEE	MACON	R	\$395.70	\$564.00
48 LINDEN	MERENGO	R	\$197.85	\$282.00
49 HUNTSVILLE	MADISON	U	\$527.60	\$752.00
50 HAMILTON	MARION	R	\$197.85	\$282.00
51 GUNTERSVILLE	MARSHALL	R	\$197.85	\$282.00
52 MOBILE	MOBILE	U	\$527.60	\$752.00
53 MONROEVILLE	MONROE	R	\$197.85	\$282.00
54 MOBILE HWY	MONTGOMER	U	\$527.60	\$752.00
55 TRAINING	MONTGOMER	U	\$131.90	\$188.00
56 DECATUR	MORGAN	R	\$197.85	\$282.00
57 MARION	PERRY	R	\$197.85	\$282.00
58 CARROLLTON	PICKENS	R	\$197.85	\$282.00
59 TROY	PIKE	R	\$197.85	\$282.00
60 ROANOKE	RANDOLPH	R	\$197.85	\$282.00
61 PHENIX CITY	RUSSELL	R	\$197.85	\$282.00
62 ASHVILLE	ST CLAIR	R	\$197.85	\$282.00
63 COLUMBIANA	SHELBY	R	\$197.85	\$282.00
64 PELHAM	SHELBY	R	\$197.85	\$282.00
65 LIVINGSTON	SUMTER	R	\$197.85	\$282.00
66 TALLADEGA	TALLADEGA	R	\$197.85	\$282.00
67 SYLACAUGA	TALLADEGA	R	\$197.85	\$282.00
68 DADEVILLE	TALLAPOOSA	R	\$197.85	\$282.00
69 ALEX CITY	TALLAPOOSA	R	\$197.85	\$282.00
70 TUSCALOOSA	TUSCALOOSA	U	\$527.60	\$752.00
71 JASPER	WALKER	R	\$197.85	\$282.00
72 CHATAM	WASHINGTON	R	\$197.85	\$282.00
73 CAMDEN	WILCOX	R	\$197.85	\$282.00
74 DBLE SPRING	WINSTON	R	\$197.85	\$282.00
75 HALEYVILLE	WINSTON	R	\$197.85	\$282.00
76 ROBERTSDALE	BALDWIN	R	\$197.85	\$282.00
77 BIRMINGHAM	JEFFERSON	U	\$593.55	\$846.00

Annual Cost	\$17,411	\$24,816
Total First Year Cost	\$208,930	
Avg Rural Cost DMT/Mo	\$233,746	
Annual Rural Avg DMT/Site		\$0
		\$0

Option 3: FRAME RELAY T-1

There is no usage based charge.

Distance Based Charge applies to this option. Rural Sites average \$1500 per site per month

Urban sites average \$650 per site per month

CLINIC	COUNTY	RURAL/URBAN	MONTHLY COST	INSTALL COST
1 PRATTVILLE	AUTAUGA	U	\$650.00	\$1,575.00
2 CLAYTON	BARBOUR	R	\$1,500.00	\$1,575.00
3 EUFAULA	BARBOUR	R	\$1,500.00	\$1,575.00
4 BAY MINETTE	BALDWIN	U	\$650.00	\$1,575.00
5 CENTERVILLE	BIBB	R	\$1,500.00	\$1,575.00
6 ONEONTA	BLOUNT	R	\$1,500.00	\$1,575.00
7 UNION SPRINGS	BULLOCK	R	\$1,500.00	\$1,575.00
8 GREENVILLE	BUTLER	R	\$1,500.00	\$1,575.00
9 ANNISTON	CALHOUN	R	\$1,500.00	\$1,575.00
10 LAFAYETTE	CHAMBERS	R	\$1,500.00	\$1,575.00
11 VALLEY	CHAMBERS	R	\$1,500.00	\$1,575.00
12 CENTRE	CHEROKEE	R	\$1,500.00	\$1,575.00
13 CLANTON	CHILTON	R	\$1,500.00	\$1,575.00
14 BUTLER	CHOCTAW	R	\$1,500.00	\$1,575.00
15 GROVEHILL	CLARKE	R	\$1,500.00	\$1,575.00
16 ASHLAND	CLAY	R	\$1,500.00	\$1,575.00
17 HEFLIN	CLEBURNE	R	\$1,500.00	\$1,575.00
18 ENTERPRISE	COFFEE	R	\$1,500.00	\$1,575.00
19 TUSCUMBIA	COLBERT	R	\$1,500.00	\$1,575.00
20 EVERGREEN	CONECUH	R	\$1,500.00	\$1,575.00
21 ROCKFORD	COOSA	R	\$1,500.00	\$1,575.00
22 ANDALUSIA	COVINGTON	R	\$1,500.00	\$1,575.00
23 LUVERNE	CRENSHAW	R	\$1,500.00	\$1,575.00
24 CULLMAN	CULLMAN	R	\$1,500.00	\$1,575.00
25 OZARK	DALE	R	\$1,500.00	\$1,575.00
26 SELMA	DALLAS	R	\$1,500.00	\$1,575.00
27 FORT PAYNE	DEKALB	R	\$1,500.00	\$1,575.00
28 WETUMPKA	ELMORE	U	\$650.00	\$1,575.00
29 BREWTON	ESCAMBIA	R	\$1,500.00	\$1,575.00
30 ATMORE	ESCAMBIA	R	\$1,500.00	\$1,575.00
31 GADSDEN	ETOWAH	R	\$1,500.00	\$1,575.00
32 FAYETTE	FAYETTE	R	\$1,500.00	\$1,575.00
33 RUSSELVILLE	FRANKLIN	R	\$1,500.00	\$1,575.00
34 GENEVA	GENEVA	R	\$1,500.00	\$1,575.00
35 EUTAW	GREENE	R	\$1,500.00	\$1,575.00
36 GREENSBORO	HALE	R	\$1,500.00	\$1,575.00
37 ABBEVILLE	HENRY	R	\$1,500.00	\$1,575.00
38 HEADLAND	HENRY	R	\$1,500.00	\$1,575.00
39 DOTHAN	HOUSTON	U	\$650.00	\$1,575.00
40 SCOTTSBORO	JACKSON	R	\$1,500.00	\$1,575.00
41 VERNON	LAMAR	R	\$1,500.00	\$1,575.00
42 FLORENCE	LAUDERDALE	R	\$1,500.00	\$1,575.00
43 MOULTON	LAWRENCE	R	\$1,500.00	\$1,575.00
44 OPELIKA	LEE	U	\$650.00	\$1,575.00
45 ATHENS	LIMESTONE	R	\$1,500.00	\$1,575.00
46 HAYNEVILLE	LOWNDES	R	\$1,500.00	\$1,575.00
47 TUSKEGEE	MACON	R	\$1,500.00	\$1,575.00
48 LINDEN	MERENGO	R	\$1,500.00	\$1,575.00
49 HUNTSVILLE	MADISON	U	\$650.00	\$1,575.00
50 HAMILTON	MARION	R	\$1,500.00	\$1,575.00
51 GUNTERSVILLE	MARSHALL	R	\$1,500.00	\$1,575.00
52 MOBILE	MOBILE	U	\$650.00	\$1,575.00
53 MONROEVILLE	MONROE	R	\$1,500.00	\$1,575.00
54 MOBILE HWY	MONTGOMER	U	\$650.00	\$1,575.00
55 TRAINING	MONTGOMER	U	\$650.00	\$1,575.00
56 DECATUR	MORGAN	R	\$1,500.00	\$1,575.00
57 MARION	PERRY	R	\$1,500.00	\$1,575.00
58 CARROLLTON	PICKENS	R	\$1,500.00	\$1,575.00
59 TROY	PIKE	R	\$1,500.00	\$1,575.00
60 ROANOKE	RANDOLPH	R	\$1,500.00	\$1,575.00
61 PHENIX CITY	RUSSELL	R	\$1,500.00	\$1,575.00
62 ASHVILLE	ST CLAIR	R	\$1,500.00	\$1,575.00
63 COLUMBIANA	SHELBY	R	\$1,500.00	\$1,575.00
64 PELHAM	SHELBY	R	\$1,500.00	\$1,575.00
65 LIVINGSTON	SUMTER	R	\$1,500.00	\$1,575.00
66 TALLADEGA	TALLADEGA	R	\$1,500.00	\$1,575.00
67 SYLACAUGA	TALLADEGA	R	\$1,500.00	\$1,575.00
68 DADEVILLE	TALLAPOOSA	R	\$1,500.00	\$1,575.00
69 ALEX CITY	TALLAPOOSA	R	\$1,500.00	\$1,575.00
70 TUSCALOOSA	TUSCALOOSA	U	\$650.00	\$1,575.00
71 JASPER	WALKER	R	\$1,500.00	\$1,575.00
72 CHATAM	WASHINGTON	R	\$1,500.00	\$1,575.00
73 CAMDEN	WILCOX	R	\$1,500.00	\$1,575.00
74 DBLE SPRING	WINSTON	R	\$1,500.00	\$1,575.00
75 HALEYVILLE	WINSTON	R	\$1,500.00	\$1,575.00
76 ROBERTSDALE	BALDWIN	R	\$1,500.00	\$1,575.00
77 BIRMINGHAM	JEFFERSON	U	\$650.00	\$1,575.00

Annual Cost	\$106,150	\$121,275
Total First Year Cost	\$1,273,800	
Avg Rural Cost Diff/Mo	\$1,395,075	\$850.00
Annual Rural Avg Diff/Site		\$10,200.00

Option 4: FULL T-1

There is no usage based charge.

Distance Based Charge applies to this option. Rural Sites average \$2000 per site per month

Urban sites average \$750 per site per month

CLINIC	COUNTY	RURAL/URBAN	MONTHLY COST	INSTALL COST
1 PRATTVILLE	AUTAUGA	U	\$750.00	\$1,575.00
2 CLAYTON	BARBOUR	R	\$2,000.00	\$1,575.00
3 EUFAULA	BARBOUR	R	\$2,000.00	\$1,575.00
4 BAY MINETTE	BALDWIN	U	\$750.00	\$1,575.00
5 CENTERVILLE	BIBB	R	\$2,000.00	\$1,575.00
6 ONEONTA	BLOUNT	R	\$2,000.00	\$1,575.00
7 UNION SPRINGS	BULLOCK	R	\$2,000.00	\$1,575.00
8 GREENVILLE	BUTLER	R	\$2,000.00	\$1,575.00
9 ANNISTON	CALHOUN	R	\$2,000.00	\$1,575.00
10 LAFAYETTE	CHAMBERS	R	\$2,000.00	\$1,575.00
11 VALLEY	CHAMBERS	R	\$2,000.00	\$1,575.00
12 CENTRE	CHEROKEE	R	\$2,000.00	\$1,575.00
13 CLANTON	CHILTON	R	\$2,000.00	\$1,575.00
14 BUTLER	CHOCTAW	R	\$2,000.00	\$1,575.00
15 GROVEHILL	CLARKE	R	\$2,000.00	\$1,575.00
16 ASHLAND	CLAY	R	\$2,000.00	\$1,575.00
17 HEFLIN	CLEBURNE	R	\$2,000.00	\$1,575.00
18 ENTERPRISE	COFFEE	R	\$2,000.00	\$1,575.00
19 TUSCUMBIA	COLBERT	R	\$2,000.00	\$1,575.00
20 EVERGREEN	CONECUH	R	\$2,000.00	\$1,575.00
21 ROCKFORD	COOSA	R	\$2,000.00	\$1,575.00
22 ANDALUSIA	COVINGTON	R	\$2,000.00	\$1,575.00
23 LUVERNE	CRENSHAW	R	\$2,000.00	\$1,575.00
24 CULLMAN	CULLMAN	R	\$2,000.00	\$1,575.00
25 OZARK	DALE	R	\$2,000.00	\$1,575.00
26 SELMA	DALLAS	R	\$2,000.00	\$1,575.00
27 FORT PAYNE	DEKALB	R	\$2,000.00	\$1,575.00
28 WETUMPKA	ELMORE	U	\$750.00	\$1,575.00
29 BREWTON	ESCAMBIA	R	\$2,000.00	\$1,575.00
30 ATMORE	ESCAMBIA	R	\$2,000.00	\$1,575.00
31 GADSDEN	ETOWAH	R	\$2,000.00	\$1,575.00
32 FAYETTE	FAYETTE	R	\$2,000.00	\$1,575.00
33 RUSSELVILLE	FRANKLIN	R	\$2,000.00	\$1,575.00
34 GENEVA	GENEVA	R	\$2,000.00	\$1,575.00
35 EUTAW	GREENE	R	\$2,000.00	\$1,575.00
36 GREENSBORO	HALE	R	\$2,000.00	\$1,575.00
37 ABBEVILLE	HENRY	R	\$2,000.00	\$1,575.00
38 HEADLAND	HENRY	R	\$2,000.00	\$1,575.00
39 DOTHAN	HOUSTON	U	\$750.00	\$1,575.00
40 SCOTTSBORO	JACKSON	R	\$2,000.00	\$1,575.00
41 VERNON	LAMAR	R	\$2,000.00	\$1,575.00
42 FLORENCE	LAUDERDALE	R	\$2,000.00	\$1,575.00
43 MOULTON	LAWRENCE	R	\$2,000.00	\$1,575.00
44 OPELIKA	LEE	U	\$750.00	\$1,575.00
45 ATHENS	LIMESTONE	R	\$2,000.00	\$1,575.00
46 HAYNEVILLE	LOWNDES	R	\$2,000.00	\$1,575.00
47 TUSKEGEE	MACON	R	\$2,000.00	\$1,575.00
48 LINDEN	MERENGO	R	\$2,000.00	\$1,575.00
49 HUNTSVILLE	MADISON	U	\$750.00	\$1,575.00
50 HAMILTON	MARION	R	\$2,000.00	\$1,575.00
51 GUNTERSVILLE	MARSHALL	R	\$2,000.00	\$1,575.00
52 MOBILE	MOBILE	U	\$750.00	\$1,575.00
53 MONROEVILLE	MONROE	R	\$2,000.00	\$1,575.00
54 MOBILE HWY	MONTGOMER	U	\$750.00	\$1,575.00
55 TRAINING	MONTGOMER	U	\$750.00	\$1,575.00
56 DECATUR	MORGAN	R	\$2,000.00	\$1,575.00
57 MARION	PERRY	R	\$2,000.00	\$1,575.00
58 CARROLLTON	PICKENS	R	\$2,000.00	\$1,575.00
59 TROY	PIKE	R	\$2,000.00	\$1,575.00
60 ROANOKE	RANDOLPH	R	\$2,000.00	\$1,575.00
61 PHENIX CITY	RUSSELL	R	\$2,000.00	\$1,575.00
62 ASHVILLE	ST CLAIR	R	\$2,000.00	\$1,575.00
63 COLUMBIANA	SHELBY	R	\$2,000.00	\$1,575.00
64 PELHAM	SHELBY	R	\$2,000.00	\$1,575.00
65 LIVINGSTON	SUMTER	R	\$2,000.00	\$1,575.00
66 TALLADEGA	TALLADEGA	R	\$2,000.00	\$1,575.00
67 SYLACAUGA	TALLADEGA	R	\$2,000.00	\$1,575.00
68 DADEVILLE	TALLAPOOSA	R	\$2,000.00	\$1,575.00
69 ALEX CITY	TALLAPOOSA	R	\$2,000.00	\$1,575.00
70 TUSCALOOSA	TUSCALOOSA	U	\$750.00	\$1,575.00
71 JASPER	WALKER	R	\$2,000.00	\$1,575.00
72 CHATOM	WASHINGTON	R	\$2,000.00	\$1,575.00
73 CAMDEN	WILCOX	R	\$2,000.00	\$1,575.00
74 DBLE SPRING	WINSTON	R	\$2,000.00	\$1,575.00
75 HALEYVILLE	WINSTON	R	\$2,000.00	\$1,575.00
76 ROBERTSDALE	BALDWIN	R	\$2,000.00	\$1,575.00
77 BIRMINGHAM	JEFFERSON	U	\$750.00	\$1,575.00

Annual Cost	\$140,250	\$121,275
Total First Year Cost	\$1,683,000	
Avg Rural Cost Diff/Mo	\$1,804,275	
Annual Rural Avg Diff/Site		\$1,250.00
		\$15,000.00